

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P37597P0-567	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/JP2005/005603	International filing date (day/month/year) 18/03/2005	(Earliest) Priority Date (day/month/year) 26/03/2004
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box II).

3. **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 3

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/JP2005/005603

A. CLASSIFICATION OF SUBJECT MATTER
 H01L33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/047151 A1 (BOGNER GEORG ET AL) 11 March 2004 (2004-03-11)	1-14, 18-27
Y	paragraph '0018! - paragraph '0049!; figures 1-6	15-17
X	US 2003/141510 A1 (BRUNNER HERBERT ET AL) 31 July 2003 (2003-07-31)	1,18,23
A	paragraph '0034! - paragraph '0044!; figures 1-4	2-17, 19-22, 24-27
X	DE 199 45 919 A1 (ROHM CO. LTD., KYOTO) 30 March 2000 (2000-03-30)	1
Y	column 3, line 13 - column 4, line 7; figures 2-4	15-17
A		2-14, 18-27
		-/-

 Further documents are listed in the continuation of box C.

 Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

1 February 2006

21/02/2006

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 087 447 A (ROHM CO., LTD) 28 March 2001 (2001-03-28)	1
A	paragraph '0025! - paragraph '0028!; figure 1 -----	2-27
X	EP 1 267 423 A (TOYODA GOSEI CO., LTD; SANKEN ELECTRIC CO., LTD) 18 December 2002 (2002-12-18)	1
A	paragraph '0052! - paragraph '0059!; figures 1,3 -----	2-27
A	EP 1 246 265 A (SUMITOMO ELECTRIC INDUSTRIES, LTD; ROHM CO., LTD) 2 October 2002 (2002-10-02) paragraph '0059! - paragraph '0062!; figure 7 -----	1-27
A	US 5 283 425 A (IMAMURA ET AL) 1 February 1994 (1994-02-01) column 3, line 16 - column 4, line 10; figure 5 -----	1-27
A	US 5 660 461 A (IGNATIUS ET AL) 26 August 1997 (1997-08-26) column 2, line 66 - column 6, line 40; figures 3-8 -----	1-27

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2005/005603

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 2004047151	A1 11-03-2004	CN WO DE EP JP TW	1471734 A 0217405 A1 10041328 A1 1312124 A1 2004507114 T 501276 B	28-01-2004 28-02-2002 14-03-2002 21-05-2003 04-03-2004 01-09-2002
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